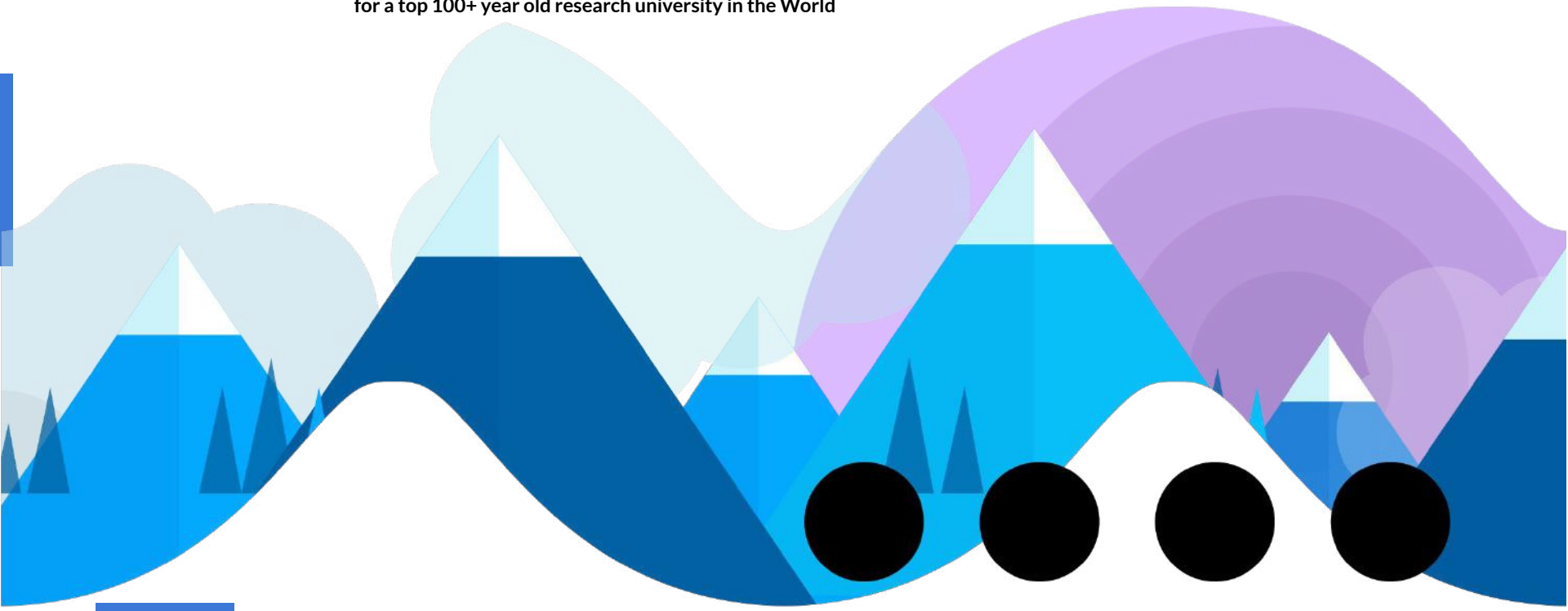




A Case Study

# Implement DevOps & Ensure Delivery Quality

for a top 100+ year old research university in the World



## Client Profile

The client is a 100+ year old public, deemed, research university for higher education and research in science, engineering, design, and management. It is ranked second in the world in terms of citations per faculty and is one of the top research universities in Asia.

The client (the university) has several internal systems, softwares and platforms in place to help its students, faculty, vendors, visitors etc., with various functions.

The university partnered with IMSS to help revamp its solutions, integrate disparate solutions to work together seamlessly and develop new solutions on various platforms where necessary.

## Summary

This project is to ease the requirement management and in turn optimize the schedule and quality of deliveries.

IMSS identified and integrated various DevOps tools and practices to efficiently manage the projects.

By the end of the project, IMSS made it easier for the client and their development teams to streamline the requirement receipt process, tracking and project management for better resource management, inculcate better project discipline using DevOps tools and traceability from requirement to closure.

## Opportunity

IMSS has been engaged in maintenance of multiple applications which are catering to core academic functions of IISc. IMSS team has been delivering enhancements and support on these applications.

Generally, the requirements are received from multiple stakeholders through emails, meetings and verbal communications.

Often, it becomes difficult to manage the requirements effectively, which in turn affecting the delivery schedule and quality of delivery.



## Solution

IMSS integrated various DevOps tools and processes to achieve the below.

- Requirements should be captured at a central location and team members for performing their respective activities.
- Processes to be defined for addressing the conflict between support and development activities.
- Process Discipline like Daily Stand-Up, Review Process, Periodic project Reviews
- Building of test cases for the requirements.
- Time tracking for better resource management
- Source Code Management
- Traceability from Requirement to closure.
- Automation of builds and deployment.

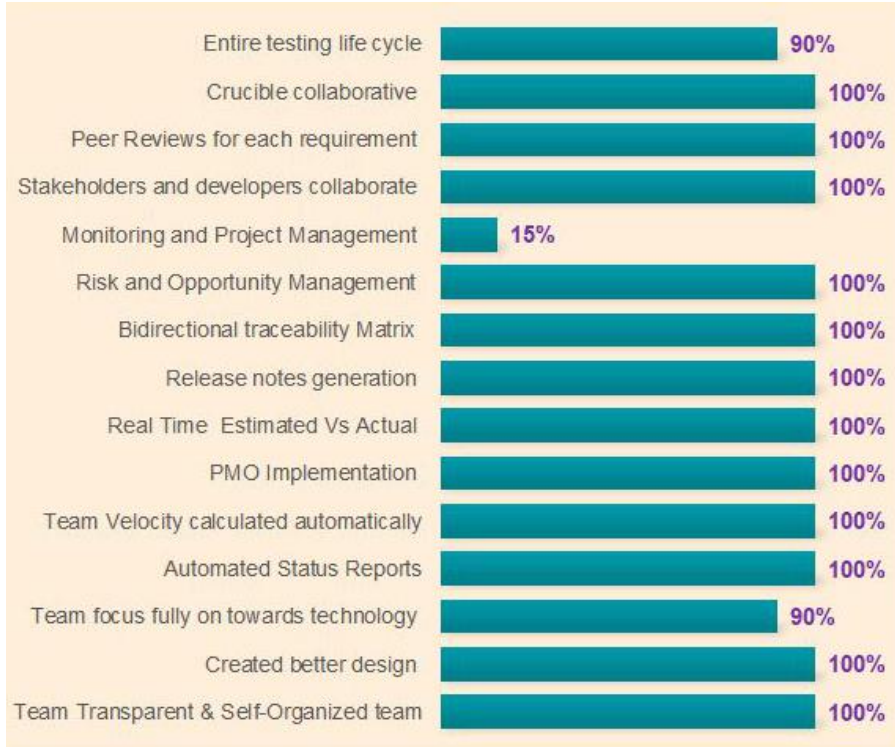
## Tools and Practices

- **PLAN & CODING:**  
JIRA, AIO Time Sheet, Xray Test Management, GitLab
- **QUALITY MANAGEMENT:**  
Maven, MS Build, Nunit, Xray Test Management
- **DEPLOYMENT MANAGEMENT:**  
Ansible, Puppet
- **MONITORING:**  
JIRA Dashboards, Auto Status mails team, Auto Build Mails , Auto Unit test mails, Auto release notes.
- **INTEGRATION MANAGEMENT:**  
Bamboo, Jenkins

## Results

- 90% shift in team focus shift from operations to technology.
- 100% automation of weekly / monthly report submission to respective reporting managers.
- 100% automation of team velocity calculation - burnt story point w.r.t sprint and automate reporting.
- 100% automation of creating the build upon code check-in to source control and automatically perform unit-tests and produce results.
- 100% auto-generation of release notes w.r.t. product deployment.
- 100% automation of bi-directional traceability matrix management.
- 90% automation of test life cycle management - test plan, design, execution and reporting.
- 85% reduction in manual monitoring and project management.

## Methodology



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